



FIGURE 2—The track of Hurricane Frederic, September 2-14, 1979 (from track of Hurricane Frederic

FIGURE 3—Known annual maximum tides at Mobile, Alabama, 1772-1979  
(Gage at Alabama State Docks)

FIGURE 1.—Index map of the Mississippi, Alabama, and Florida gulf coast showing location of quadrangles for which flood boundaries of Hurricane Frederic are delineated

**Introduction**—The approximate years 1960 by Hurricane Irene (September 12-13, 1999), along with the passage of Tropical Storm Floyd (September 13-14, 1999), the Atlantic Gulf of Mexico was hit by a series of hurricanes that brought about a million deaths of Tort Wilson Beach, Fla., and caused about 115 million dollars of damage to the coastal area. The hurricanes that hit the Atlantic Ocean were referred to National Coastal Weather Panel, 1999 (NOGVO).

To obtain S.I. units		By	
centimeter (cm)	2.54	inch (in)	2.54
millimeter (mm)	25.4	inch (in)	25.4
meter (m)	3048	foot (ft)	3048
kilometer (km)	0003048	mile (mi)	0003048
meter per second (m/s)	1.609	mile (mi)	1.609
	5168	foot (ft)	5168

[illegible]

Figure 4 is a line graph showing the frequency of high tides in Mobile Bay (Alabama State Decree) from 1965 to 1979. The Y-axis represents the frequency (4 to 15). The X-axis represents the recurrence interval in years (2, 5, 10, 50, 100). The graph shows a curve that starts at approximately 12.5 for a 2-year interval, decreases to about 10.5 for a 5-year interval, then drops sharply to about 7.5 for a 10-year interval, and finally levels off at about 7.5 for a 100-year interval. A vertical dashed line is drawn at the 10-year recurrence interval, with labels for 'August 18, 1969' and 'September 13, 1979'.